

Product: Terex Atlas Model 1704-1804 372,373,374,282,283 and 284 series Excavator Service Repair Workshop Manual
Full Download: <https://www.aresairmanual.com/downloads/terex-atlas-model-1704-1804-372373374282283-and-284-series-excavator-service-repair-workshop-manual/>



Workshopmanual 1704 / 1804



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CONTENTS

Service manual for the

TEREX-ATLAS Model 1704 -1804

Backhoe and industrial rehandler range.

Including Mobile and Tracked variants.

Built from 1993 onwards

1. 935 series operators cabin
2. Deutz - Engine
3. Lubrication
4. 1704 - 1804. 372, 282 series
5. 1704 - 1804. 373, 283 series
6. 1704 - 1804. 374, 284 series
7. Welding
8. Electric - Electronic



This manual has been produced from various resources to aid the serviceman and mechanic in carrying out maintenance and repair of the:-

TEREX - ATLAS, Model 1704 - 1804.

372, 373, 374, 282, 283, and 284 series

produced from 1993 onwards.

During this period the basic model has undergone 2 major design changes. These changes are covered in 3 separate series sections.

Please refer to relevant manufactures manuals for the repair and overhaul procedure of components. Engine, Deutz. Pumps & Motors, Linde. etc.

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8 - 9	Functions (standard and optional) left / right hand panels
10	Multifunction levers (mobile only)
11	Adjustable steering column (mobile only)
12 - 22	Displays and controls

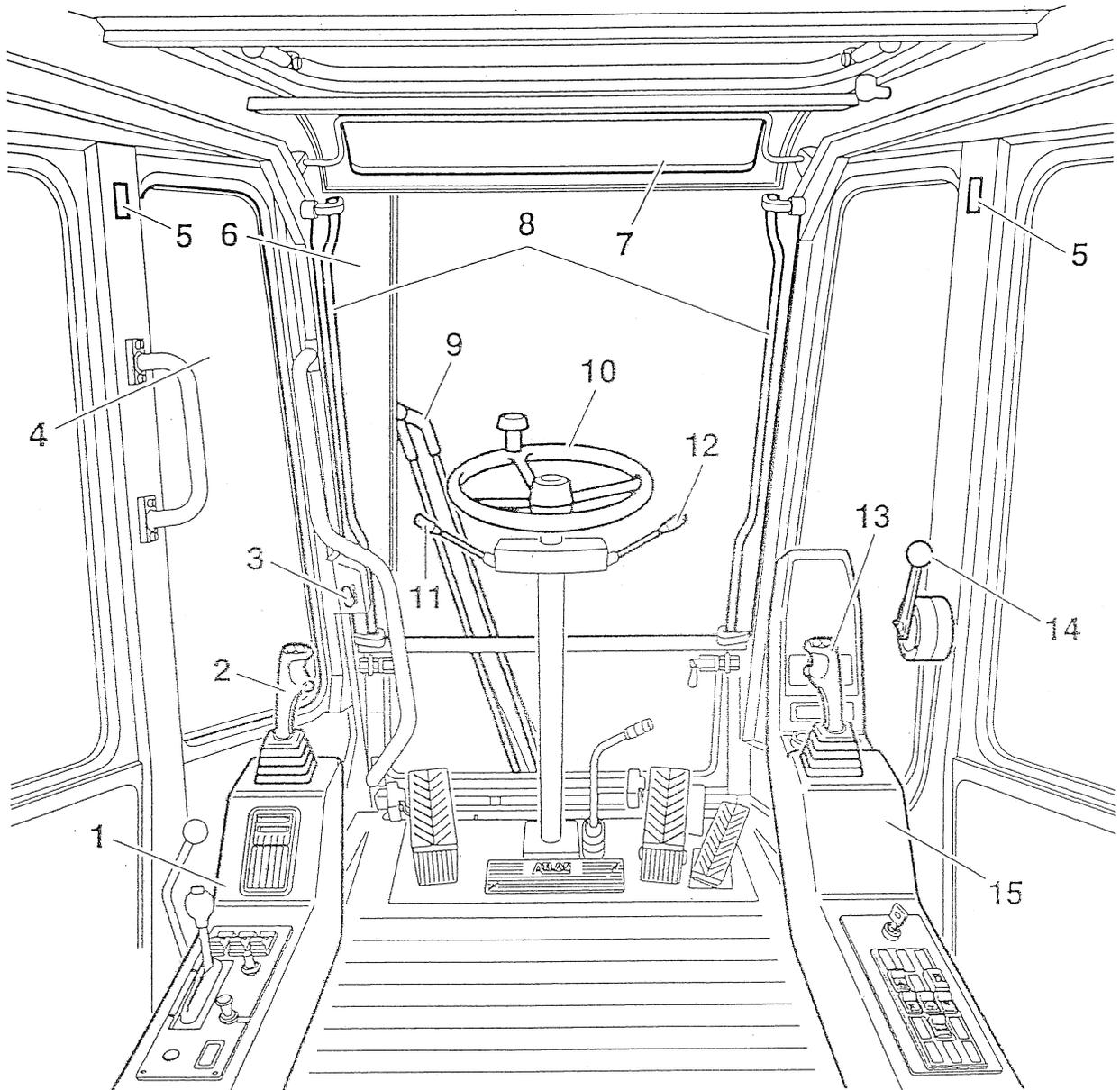


GENERAL VIEW OF CAB

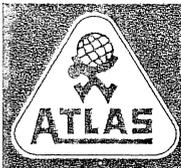
Tafel:

Name: Ro.

Datum: 07.97



- | | |
|--|--|
| 1 Left console | 12 Right multifunction lever for:
Low and high beam headlights
Horn
Flashing direction indicators |
| 2 Control lever for:
Jib
Slewing | 13 Control lever for:
Lifting
Lowering
Bucket/grab |
| 3 Lever for cab door | 14 Engine speed control lever |
| 4 Cab door | 15 Right console |
| 5 Interior lights | |
| 6 Windshield | |
| 7 Sun visor | |
| 8 Windshield locking rods, left/right | |
| 9 Windshield wiper | |
| 10 Steering wheel | |
| 11 Left multifunction lever for:
Inching
Intermittent wipe
Windshield washer
Preselecting travel direction | |

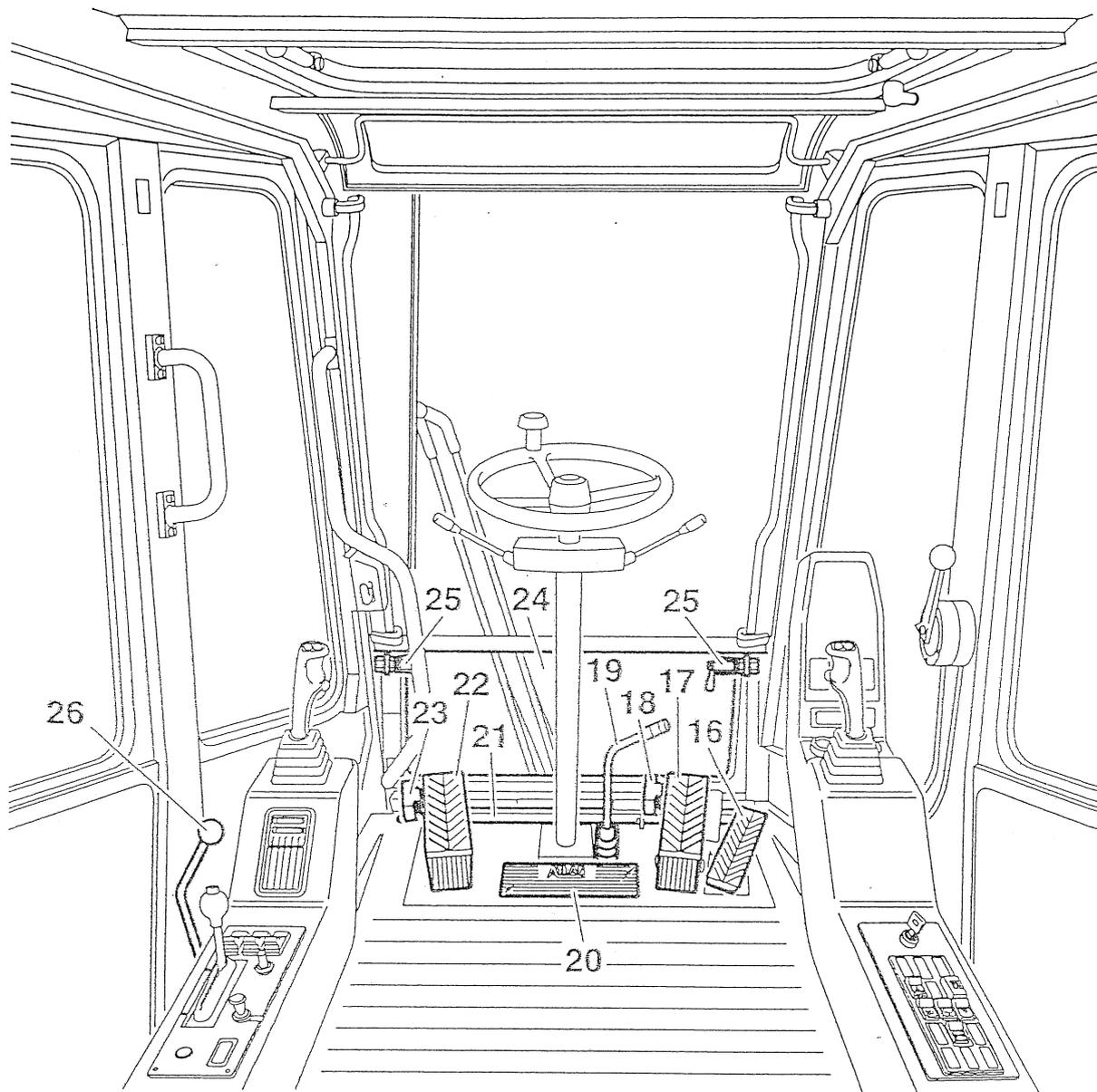


GENERAL VIEW OF CAB

Tafel:

Name: Ro.

Datum: 07.97



- 16 Accelerator pedal
- 17 Brake pedal-driving
- 18 Brake pedal lock-driving
- 19 Lever for dozer blade
- 20 Boom luffing pedal
- 21 Windshield vent outlet
- 22 Slewing brake pedal
- 23 Slewing brake pedal lock
- 24 Plug-in window
- 25 Plug-in window catch
- 26 Hydraulic pilot control circuit shutdown



GENERAL VIEW OF CAB

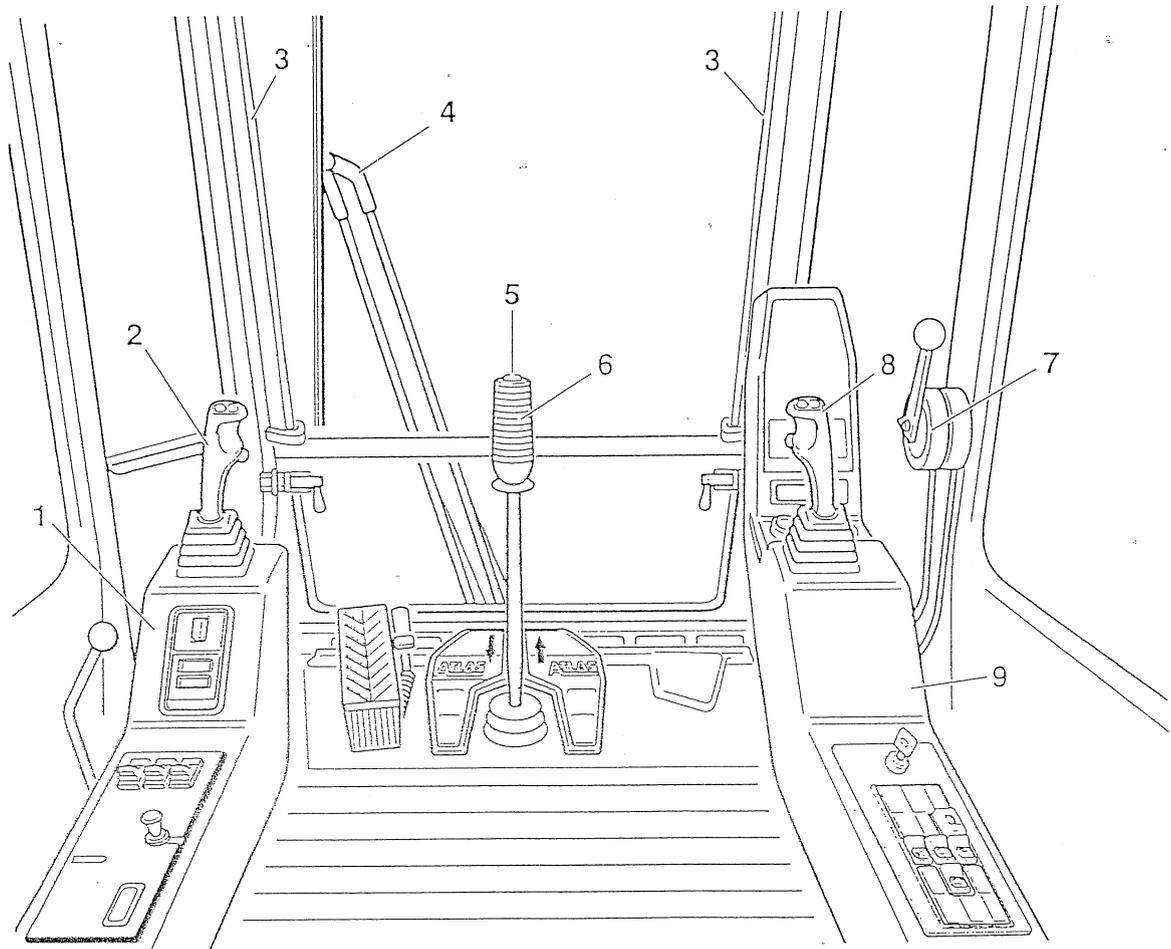
Schulungszentrum

P3

Tafel:

Name: Ro.

Datum: 07.97



- 1 Left console
- 2 Control lever for:
Jib
Slewing
- 3 Windshield locking rods, left/right
- 4 Windshield wiper
- 5 Speed selector switch
- 6 Control lever for travel
- 7 Engine speed control lever
- 8 Control lever for:
Lifting
Lowering
Bucket/grab
- 9 Right console



GENERAL VIEW OF CAB

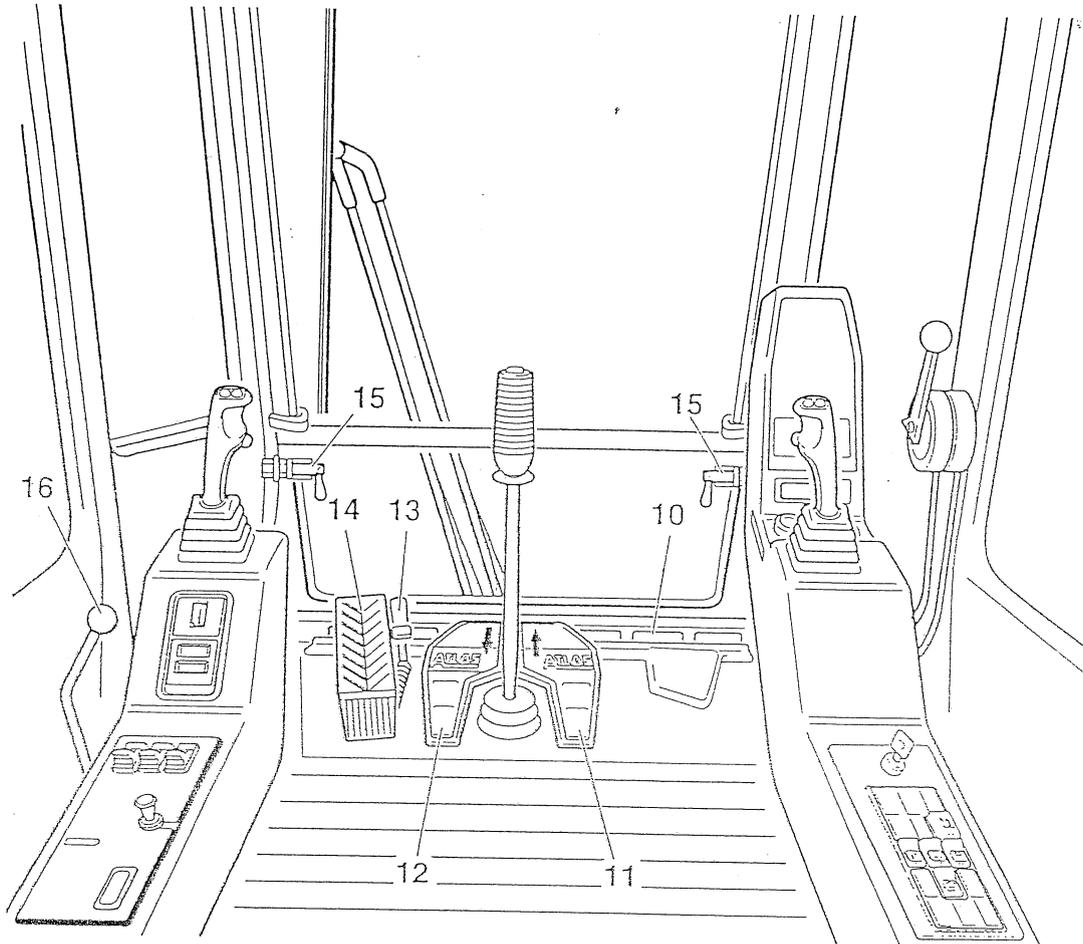
Schulungszentrum

P4

Tafel:

Name: Ro.

Datum: 07.97



- 10 Windshield vent outlet
- 11 Pedal for:
forward travel
extending boom
- 12 Pedal for:
reversing
retracting boom
- 13 Slewing brake pedal lock
- 14 Slewing brake pedal
- 15 Plug-in window catch
- 16 Hydraulic pilot control circuit
shutdown



GENERAL VIEW OF CAB

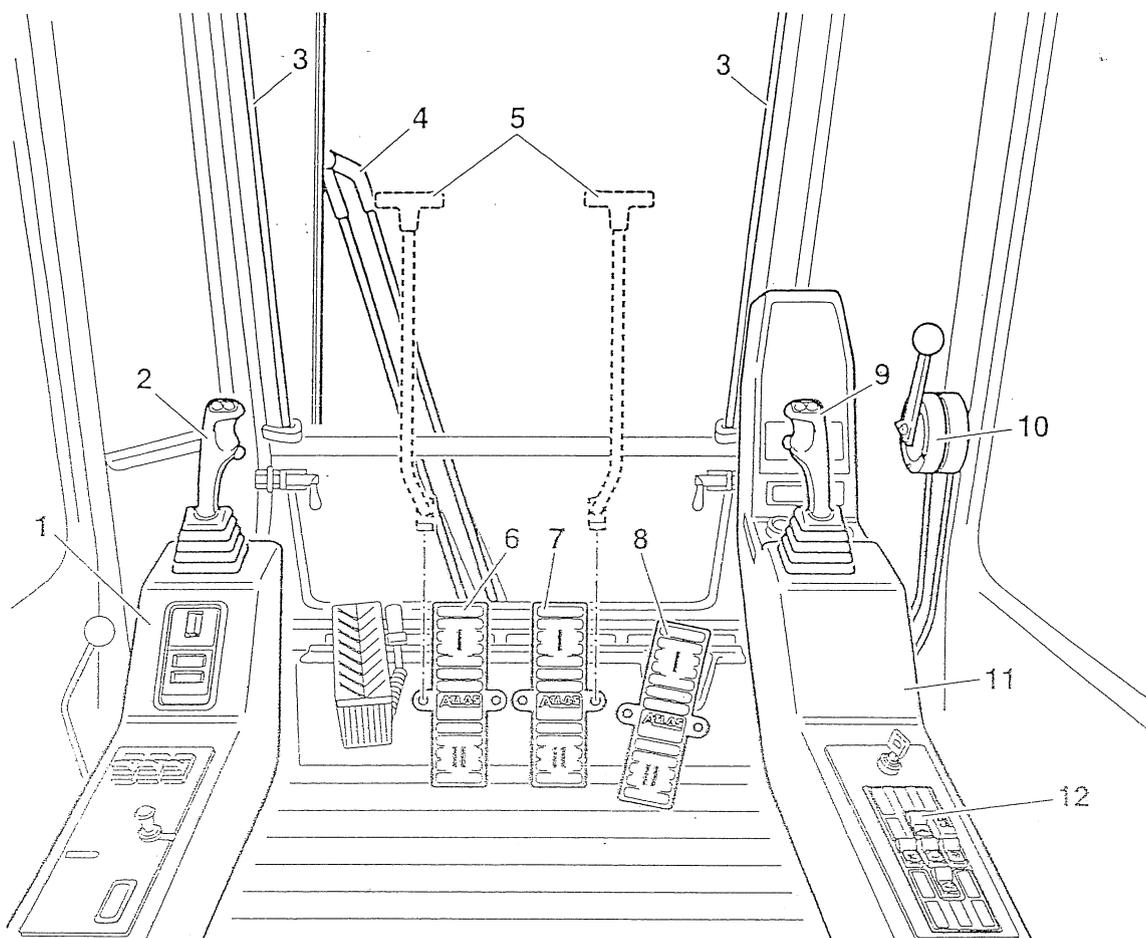
Schulungszentrum

P5

Tafel:

Name: Ro.

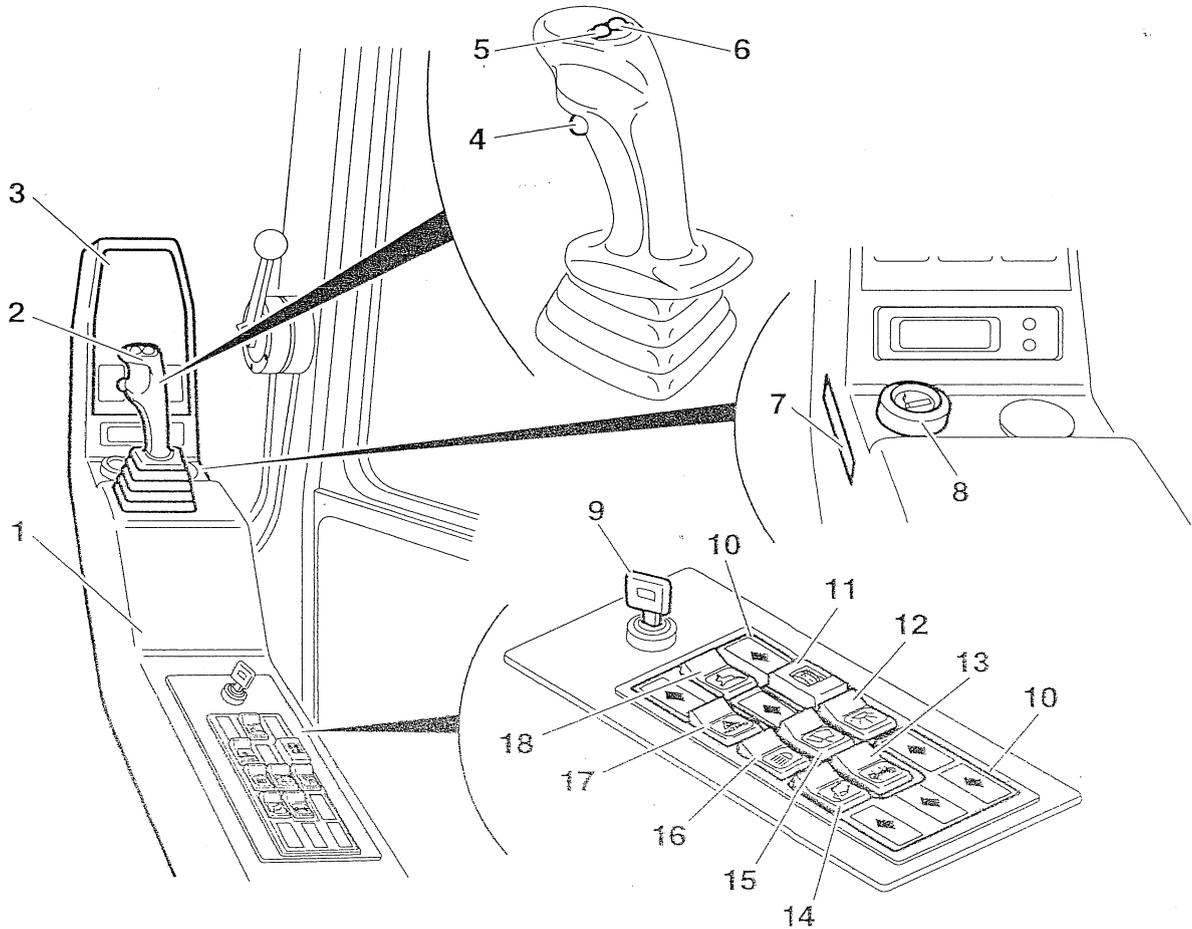
Datum: 07.97



- 1 Left console
- 2 Control lever for:
Jib
Slewing
- 3 Windshield locking rods, left/right
- 4 Windshield wiper
- 5 Levers for precision control of the pedals (6 and 7)
Note
The levers (5) are in a holder underneath the seat.
- 6 Pedal for travel:
I L.h. crawler track forwards
II L.h. crawler track reverse
- 7 Pedal for travel:
I R.h. crawler track forwards
II R.h. crawler track reverse
- 8 Pedal for operating boom:
I Extend boom
II Retract boom
- 9 Control lever for:
Lifting
Lowering
Bucket/grab
- 10 Engine speed control lever
- 11 Right console
- 12 Crawler speed switch



RIGHT SWITCH PANAL

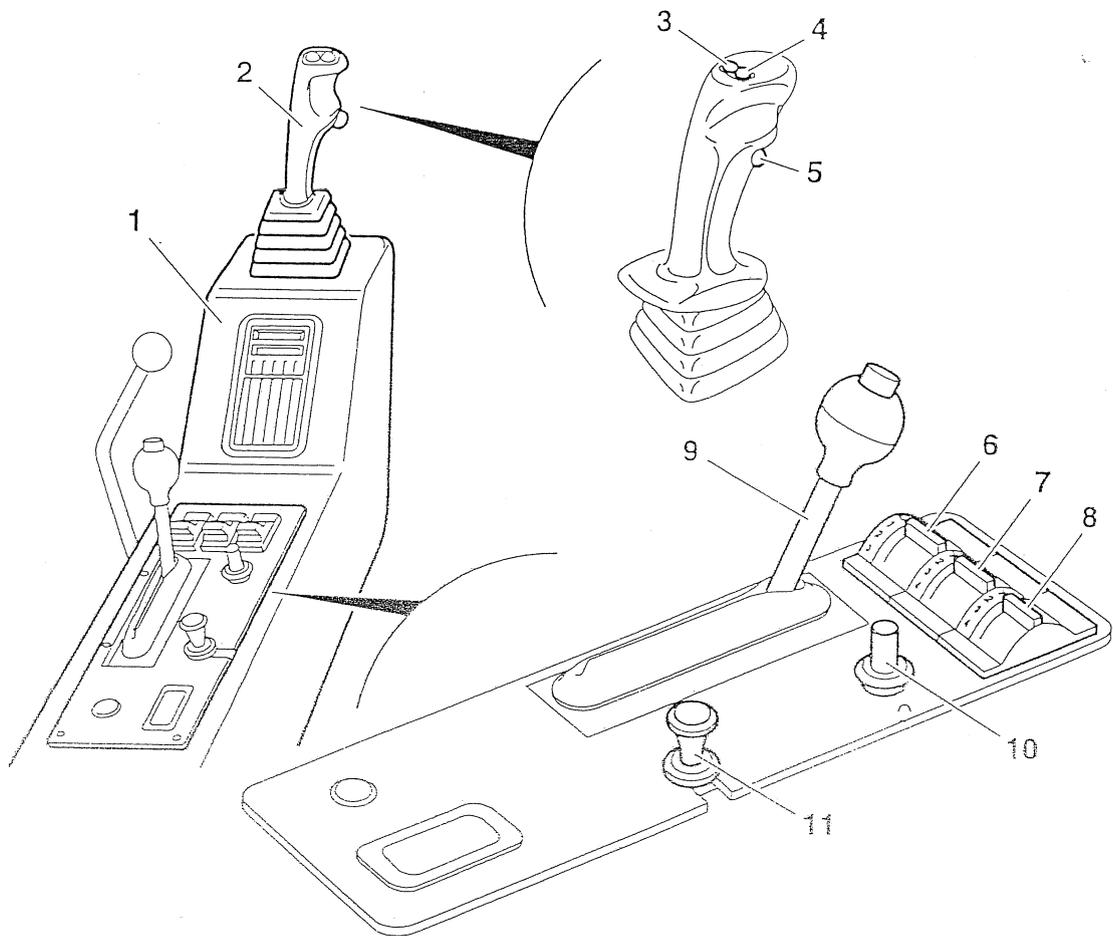


Right switch panel

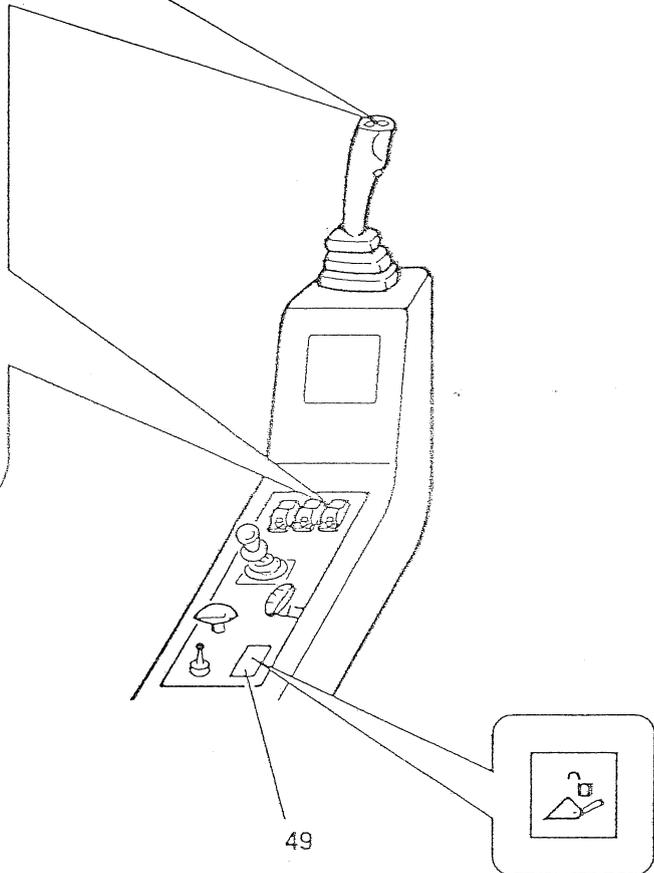
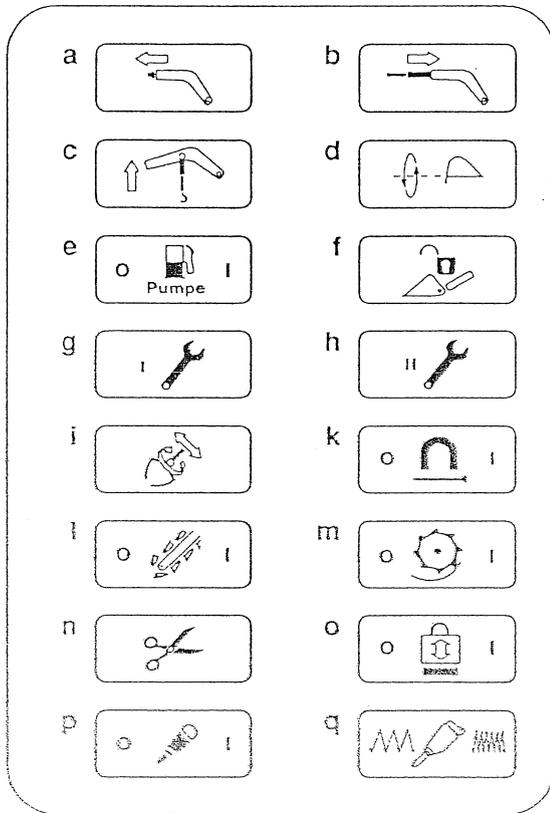
- 1 Right console
- 2 Control lever for:
Lifting
Lowering
Bucket/grab
- 3 Display panel with control and warning lights
- 4 Pushbutton to cancel precision control
- 5 Pushbutton to rotate grab to left
- 6 Pushbutton to rotate grab to right
- 7 Operating hour meter
- 8 Cigarette lighter/electric power socket
- 9 Ignition key
- 10 Spare, for optional extra (♦)
- 11 Continuously variable potentiometer for precision control
- 12 Interior lights switch
- 13 Swing axle lock switch
- 14 Switch to cancel jib cut-off
- 15 Windshield wiper switch
- 16 Switch for parking and driving lights
- 17 Hazard warning flasher switch
- 18 Switch for external oil summation and separation control



LEFT SWITCH PANAL



- 1 Left console
 - 2 Control lever for:
Folding jib
Slewing
 - 3 Left pushbutton for additional working attachments
 - 4 Right pushbutton for additional working attachments
 - 5 Pushbutton for horn
 - 6 Blower switch (speeds 1 to 3)
 - 7 Preselector switch for left pushbutton (3), (positions 0 to 4)
 - 8 Preselector switch for right pushbutton (4), (positions 0 to 4)
- The functions of preselector switches (7) and (8) vary, depending on the optional extras fitted to the excavator. Refer to the plate with "Preselect" symbols on the cab wall to establish which additional attachments or functions can be selected.
- 9 Parking brake lever
 - 10 Gear shift switch to select either on-road or off-road ratio
 - 11 Pull switch for heating



Available functions
in switch block on left

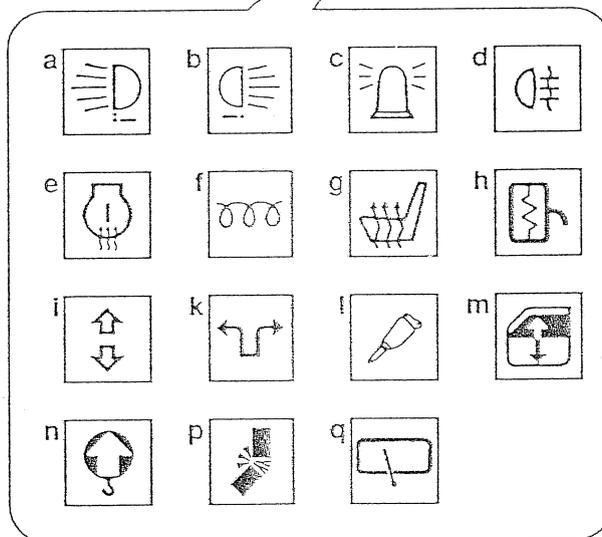
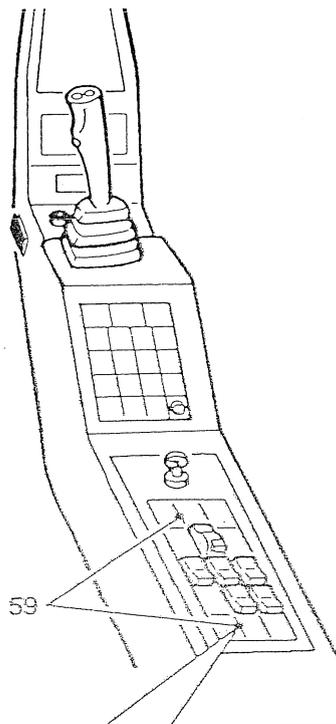
- | | | | |
|---|--|---|--|
| a | Extend telescopic boom | g | Tool 1 |
| b | Retract telescopic boom | h | Tool 2 |
| c | Pulling ram | i | Sorting grab |
| d | Slew bucket | k | Magnet attachment |
| e | Refuelling pump
(Operation see page 105) | l | Trench cutter |
| f | Rapid changeover device
(Operation is effected via
"grab rotating", see page 70) | m | Mowing attachment |
| | | n | Scrap cutter |
| | | o | Pile driver |
| | | p | Hand-held hydraulic hammer |
| | | q | Hydraulic hammer
(frequency switch) |

49 Rapid changeover device

Special equipments ✦

Available functions (59) in switch block on right

- a Headlight on roof, front (orange)
- b Headlight on roof, rear (orange)
- c Rotary beacon (yellow)
- d Rear fog light (green)
- e Fuel preheating (yellow)
- f Hydraulic oil heating (green)
- g Seat heating (yellow)
- n Mirror heating (yellow)
- l Cab lift up / down (green)
Vario cab up / down (green)
- k Vario cab forward / back (red)
- l Hydraulic hammer (blue)
- m Electric window lift (green)
- n Overload warning device (yellow)
- p Reverse safety function (red)
- q Rear window wiper (green)

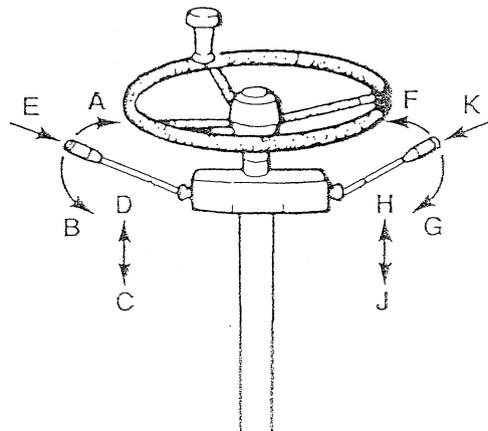




Multifunction levers

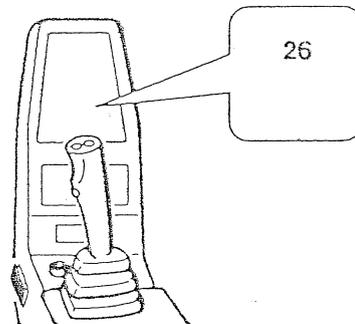
Left multifunction lever

- A Preselection - direction forwards
- B Preselection - direction reverse
- C Inching speed - on
- D Inching speed - off
- E Windshield wiper - intermittent action,
windshield washer ↕
Telltale light (26) comes on.



Right multifunction lever

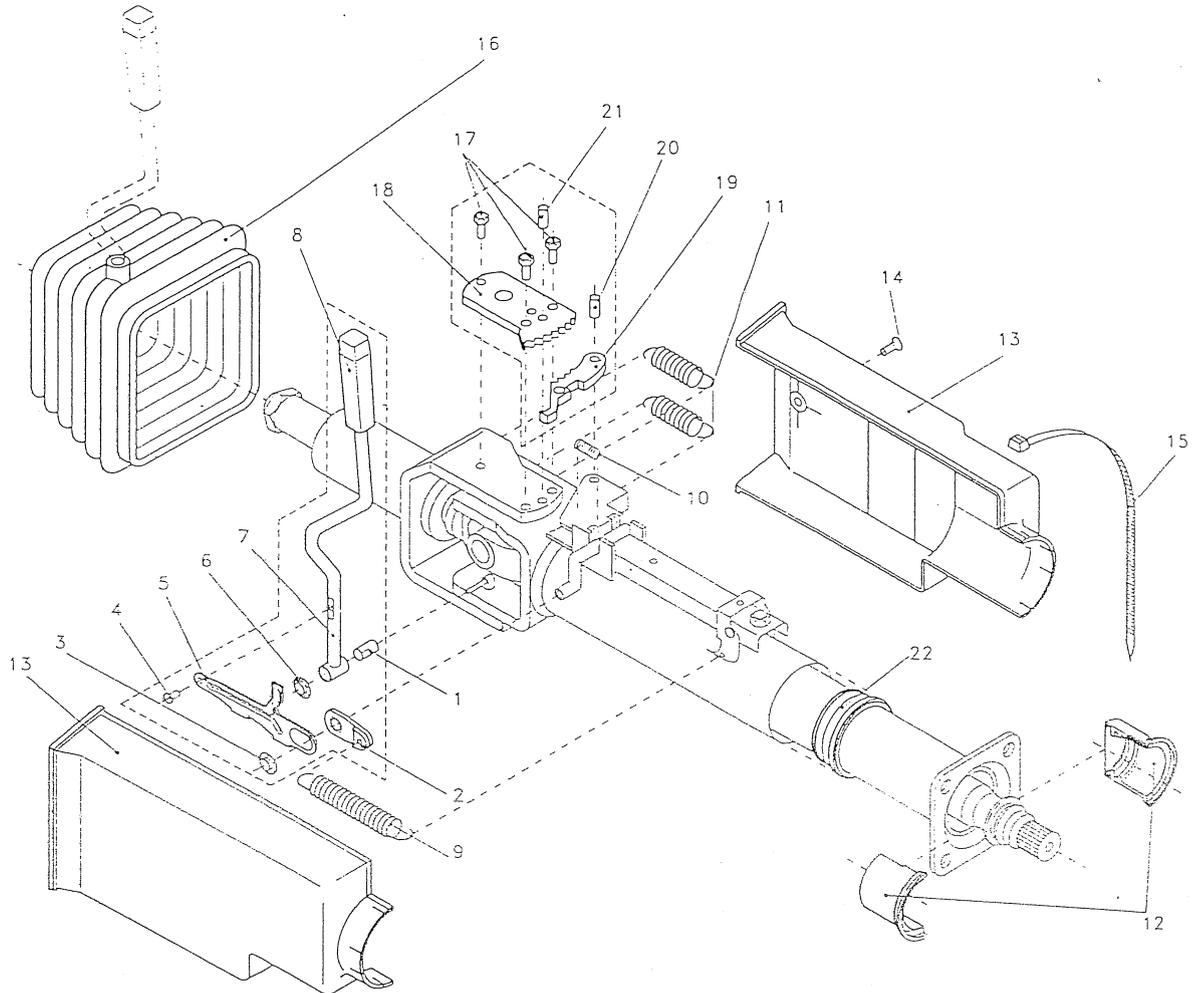
- F -- } Flashing turn indicators ...
- G -- } No function of the
- H -- } 1804 wheeled excavator
- J -- } Low and high headlight beams
- K Horn



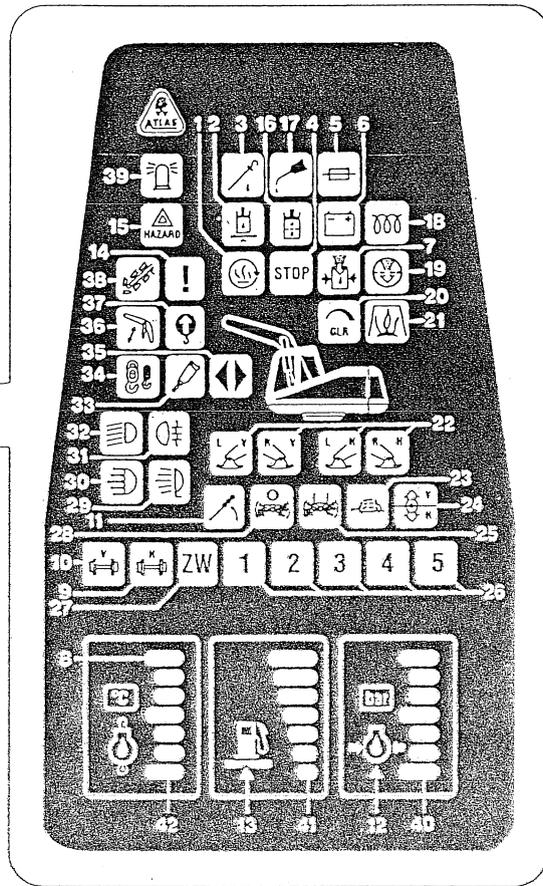
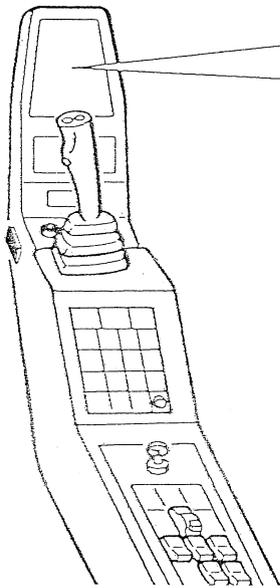


STEERING COLUMN

for cab 935 and 980



- | | | | |
|----|--------------------|----|-------------------|
| 1 | Bush | 12 | Bush |
| 2 | Bore/shift lever | 13 | Cover |
| 3 | Locking disk | 14 | Screw |
| 4 | Rivet | 15 | Cable string |
| 5 | Shift lever | 16 | Siphon |
| 6 | Locking disk | 17 | Screw |
| 7 | Lever | 18 | Toothshed segment |
| 8 | Lever with knobbed | 19 | Blocking lever |
| 9 | Spring | 20 | Pin |
| 10 | Spring | 21 | Pin |
| 11 | Spring | 22 | Bush |



Warning lights (red, yellow)

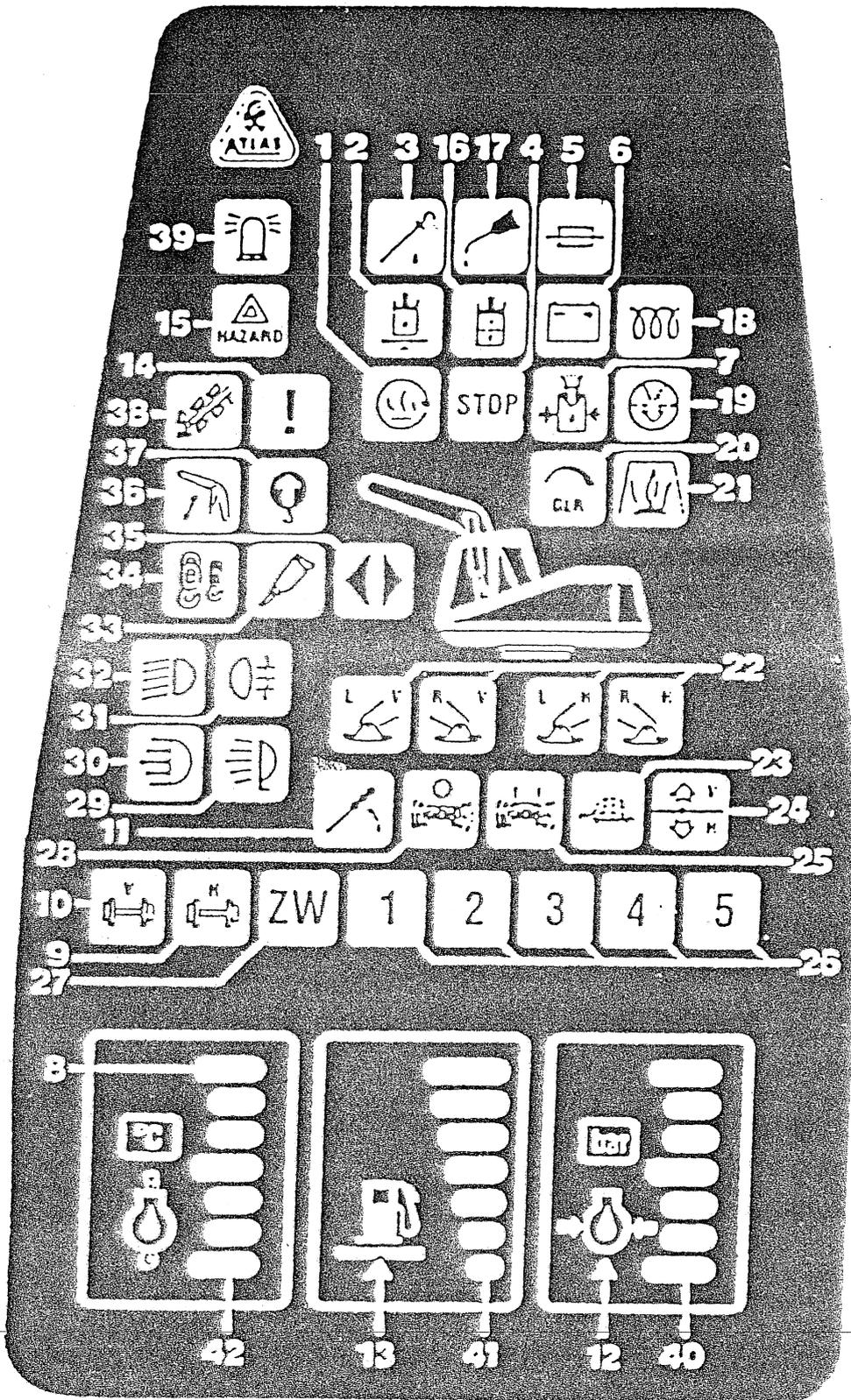
- 1 Cylinder head temperature and hydraulic fluid temperature (red)
- 2 Hydraulic fluid level (red)
- 3 Engine oil level (red)
- 4 Stop engine (red)
- faulty V-belt
- overheating
- 5 Fuse monitor (red)
- 6 Alternator (red)
- charge telltale
- 7 Pilot pressure (red)
- hydraulic fluid tank
- 8 Engine oil overheated (red) ..
- 9 Track roller pressure, rear (red) (road/rail excavator)
- 10 Track roller pressure, front (red) (road/rail excavator)
- 11 Parking brake (red)
- 12 Engine oil pressure (red)
- 13 Fuel level (red)
- minimum
- 14 Caution (yellow)
- electrical/electronic fault
- 15 Hazard warning flashers (red)

Telltale lights (yellow, green, orange, blue)

- 16 Hydraulic oil filter (yellow)
- 17 Central lubrication (green) ...
- 18 Auxiliary heater (green)
- 19 Air cleaner (yellow)
- 20 Load limit control (orange) ...
- fault
- 21 Preheating (orange)
- 22 Preselection - support pads (green)
- LV = front left
- RV = front right
- LH = rear left
- RH = rear right
- 23 Inching speed (green)
- 24 Preselection - direction (yellow)
- V = forwards
- H = reverse
- 25 Separate swing axle lock (orange)
- 26 Reserve (orange)
- 1 to 5 special functions
- 27 Road/rail excavator (yellow)
- 28 Swing axle lock (yellow)
- 29 Headlight on roof (orange)
- 30 High-beam headlights (blue)
- 31 Rear fog light (green)
- 32 Side and driving lights (green) ..
- 33 Hydraulic hammer (orange)
- 34 Pressure boost stage (yellow)
- 35 Indicators (green)
- 36 Lifting/lowering limit function (yellow)
- 37 Overload warning device (yellow)
- 38 Trench cutter (orange)
- 39 Rotating beacon (yellow)

Bar displays (green)

- 40 Engine oil pressure
- 41 Fuel level
- 42 Engine oil temperature





Displays and controls

Description

Schulungszentrum P14

Tafel:

Name: Ro.

Datum: 01.97

1. Cylinder head temperature / hydraulic fluid temperature (1704 - 1804)

warning light - red

in case of overheating of cylinder head - permanent lighting

sensor in 1. cylinder head (only air cooled engine)

in case of overheating of hydraulic fluid - flashing light

sensor in suction line of oil pressure pump

If these faults occur the pump capacity will automatically be reduced

2. Hydraulic fluid level (1004 - 1304 extra) , 1404 - 1804 serie

warning light - red

If the hydraulic fluid level is too low - permanent lighting

controlling takes place only during starting the engine.

Additional visual control on sight glass of oil tank.

3. Engine oil level (not installed)

warning light - red

For automatic controlling of engine oil level.

Controlling takes place only during starting the engine.

4. Stop engine

warning light - red

V- belt defective

(air cooled engine 1204 - 1804)

- permanent lighting

- additional a buzzer sounds

Engine oil pressure too low

- permanent lighting, additionally the warning light (12) flashes, and a buzzer sounds with the engine running.

Main hydraulic brake pressure below (< 100 bar)

Engine oil overheating (<120°) (air cooled engines)

- permanent lighting, additional the warning light (8) flashes and a buzzer sounds.

Cooling water (>118°) (water cooled engines)

- permanent lighting, additional the warning light (8) flashes and a buzzer sounds.

Cooling water level too low (water cooled engine)

- permanent lighting, additional the warning light (8) lights up and a buzzer sounds.



Displays and controls

Discription

Schulungszentrum P15

Tafel:

Name: Ro.

Datum: 01..97

5. Fuse monitor

warning light - red

Turn ignition key into position (1) - permanent lighting.

If the engine runs only permanent lighting.

Fuse defective. Each single defective fuse will be indicated on the board by a luminous diode.

6. Generator, charge telltale

warning light - red

charge telltale - permanent lighting

7. Air pressure - hydraulic fluid tank

(excavator without air pressure system no indication)

warning light - red

No or too low air pressure (< 0.3 bar) in the hydraulic fluid tank - permanent lighting

Pressure switch at the hydraulic fluid tank.

8. Engine oil monitoring

(air cooled engine)

warning light - red

If the engine oil is overheated (>120°)

- flashing lights
the warning light (4)
lights up additionally
and a buzzer sounds.

Water check temperature
and water level

(water - cooled engines)

If the cooling water is overheated

- flashing lights
the warning light (4)
lights up additionally
and a buzzer sounds.

Cooling water level too low

- permanent lighting
the warning light (4)
lights up additionally
and a buzzer sounds.

9. Track roller pressure - rear

warning light - red

Contact pressure too low

Only for 2 - way - excavator

- permanent lighting
and a buzzer sounds.

10. Track roller pressure - front

warning light - red

Contact pressure too low

Only for 2 - way - excavator

- permanent lighting
and a buzzer sounds.



Displays and controls

Description

Schulungszentrum P16

Tafel:

Name: Ro.

Datum: 01.97

11. Hand brake

Excavator already braked - permanent lighting
Pressure switch below the cabin

12. Engine oil pressure

warning light - red
If engine oil pressure is too low at running engine -
flashing light, and the warning light (4) lights up,
and a buzzer additionally sounds.
Pressure switch on engine (filter console)

13. Fuel level - minimum

warning light - red
If the fuel level is going down to 1/8 - flashing light
Sensor inside the tank

14. Caution

warning light - yellow
Fault inside the computer - permanent lighting
Incandescent lamp defective (brake light,
flash turn indicators) - flashing light

15. Hazard warning flashers

warning light - red
If hazard warning flashers is engaged - flashing light,
also the control light (35) is flashing.

16. Hydraulic fluid filter

control light - yellow
Hydraulic fluid filter contaminated - permanent lighting
Remarks : 4 seconds after switching on the ignition the engine
oil temperature and cooling water temperature will be
interrogated once.

In case of $<40^{\circ}\text{C}$

- the control light will
be suppressed for 30 minutes

In case of $>40^{\circ}\text{C}$

- the control light will
immediately light up if the
hydraulic fluid filter is
contaminated.



Displays and controls

Discription

Schulungszentrum P17
Tafel:
Name: Ro.
Datum: 01..97

17. Central lubrication (extra, 1804 series)

warning light - green

Every 3 hours automatically a lubrication process of 8 minutes is being carried out.

(from EPROM V 2.09 the lubrication process is being carried out every 4 operating hours)

(from EPROM V 2.11 the lubrication process is being carried out every 4 operating hours for 3 minute.

During this process - permanent lighting

18. Additional heater

control light - green

switched on pressurized oil heater - permanent lighting

19. Air cleaner warning device

control light - yellow

with blocked air cleaner - permanent lighting

Pressure switch at air cleaner

20. Power limit controlled system GLR (1004 - 1604)

control light - yellow

In case of troubles in the limited load regulation and with emergency control switched on - permanent lighting

The mistaken are automatically displayed through LED no. 8 in the diagnosis window of the LINDE box.

Power limit controlled system (1704 - 1804)

In case of troubles in the limit load regulation - permanent lighting

The mistaken can be called through a diagnosis of errors.

Precision control (extra - 1304)

precision control switched on - permanent lighting

21. Preheater (extra)

control light - orange

Turn ignition key on position II and wait for light to come on - start engine.



22. Stabilizer choosing

control light - green

The choosed stabilizer will be indicated - permanent lighting

LV - left front

RV - right front

LH - left rear

RH - right rear

The change-over valves will be operated by high and low gear.

23. Crawler speed

control light - green

with switched crawler speed (switch at steering column-down)

permanent lighting

Magnet valve under cabin

24. Indicator - driving direction

control light - yellow

with choosed driving direction - permanent lighting

Attention: with switched indicator - no engine start possible

25. Swing axle lock

control light - orange

The switch has three positions

Position 0 = axle is unlocked

Position 1 = axle is locked with footbrake

Position 2 = axle continously locked - permanent lighting

26. Control lights 1 - 5

control lights - orange

1.) Windscreen wiper interval

2.) Slewing restriction

3.) Seat haeter, mirror heater, air condition

4.) Changeover from stabilizer to dozer blade, automatic idling system

5.) Reserve

27. Two way excavator

control light - yellow

Switched on - permanent lighting

Warning light is flashing



Displays and controls

Discription

Schulungszentrum

P19

Tafel:

Name: Ro.

Datum: 01..97

28. Swing axle lock

see discription item 25

29. Working light (extra)

control light - yellow

30. Head light

control light - blue

(Switch right from steering colum-down)

permanent lighting

Attention: head light only on wheeled excavators.

31. Rear fog light (extra)

control light - green

32. Parking- and low beam headlights

control light - green

when lights are switched on - permanent lighting

33. Hydraulic hammer (extra)

control light - orange

hammer operation on - permanent lighting

hammer will be operated over foot-key.

34. Pressure cut in stage (heavy lift)

control light - yellow

pressure cut in stage on - permanent lighting

(1704 / 1804 no control light)

35. Flashing indicators

control light - green

flashing indicator switched on - flashing light,

a buzzer additionally sounds in flashing frequency

36. Lifting/lowering limit function (extra, except Two way excavator)

control light - yellow

when in operation - permanent lighting



Displays and controls

Description

Schulungszentrum

Tafel:

P20

Name: Ro.

Datum: 12..96

37. Overload warning device

control light - yellow
overload warning device on
permitted load limit exceeded

- permanent lighting
- flashing light,
a buzzer additionally sounds in
flashing frequency

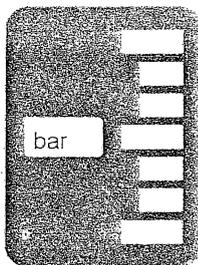
38. Trench cutter (extra)

control light - orange
when in operation - permanent lighting

39. Rotating beacon (extra)

control light - yellow
when in operation - permanent lighting

40. Engine oil pressure



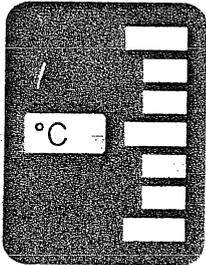
bar display - green
the momentary engine oil pressure is displayed.
If the cable or sensor is faulty, the bar in the
middle is flashing.

41. Fuel level

bar display - green
the actual fuel level is displayed
If the cable or sensor is faulty, the bar in the
middle is flashing.



42. Engine oil temperature (air-cooled engine)



- > 120°
- > 120°
- 101° - 120°
- 82° - 100°
- 64° - 81°
- 45° - 63°
- < 45°

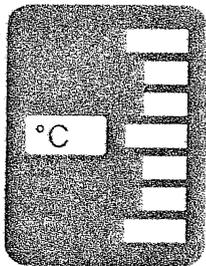
bar display - green

the actual engine temperature is displayed

Remarks: **Should there be any short circuit or interruption the middle bar display does not flash.**

If the transmitter line is interrupted only the first bar display lights up. In case of a short circuit on the transmitter line all the green bars will light up.

Cooling water temperature (water-cooled engine)



- > 118°
- > 110°
- 96° - 110°
- 81° - 95°
- 61° - 80°
- 35° - 60°
- < 35°

bar display - green

the actual cooling water temperature is displayed by the bar display

Remarks: **Should there be any short circuit or interruption the middle bar display does not flash.**

If the transmitter line is interrupted only the first bar display lights up. In case of a short circuit on the transmitter line all the green bars and the red bar (warning contact) will light up, additionally the warning light (4) lights up and the buzzer sounds.



Discription of the starting procedur

After switching on the ignition a light test of appr. 4 seconds will be carried out. During this time all control and warning lights will light up.

If the light test is finished the following control an warning lights continue to light up or to flash:

- 4 Stop engine
- 6 Generator
- 12 Engine oil pressure,
triangle flashing light, red
- 20 GLR - power limit controlled system (1704-2004)
(only for units with GLR)
- 41 Fuel level, bar display
- 42 Engine oil temperature / Cooling water temperature

Ignition key into position (III) - Start of engine

- 12 Engine oil pressure, off, depending of oil pressure
the bar display is on (40) - green
- 20 GLR, off (1704-2004) - load sensing (1304)
- 42 Fuel level, depending on inside level the bar
display is on - green
- 42 Engine oil temperature, depending on temperature the
bar display is on - green

CONTENTS

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| 1 | Measurement of fuel pressure
Deutz engine BF6M1013 (water cooled) |
| 2 | Deutz engine BF6L913 CT (air cooled)
special adjusting instructions |
| 3 | Tappet adjustment procedure. Valve clearance
Deutz engine BF6M1013 (water cooled) |



DEUTZ - ENGINE

BF4M 1012 E

BF4/6M 1013E / EC

Schulungszentrum

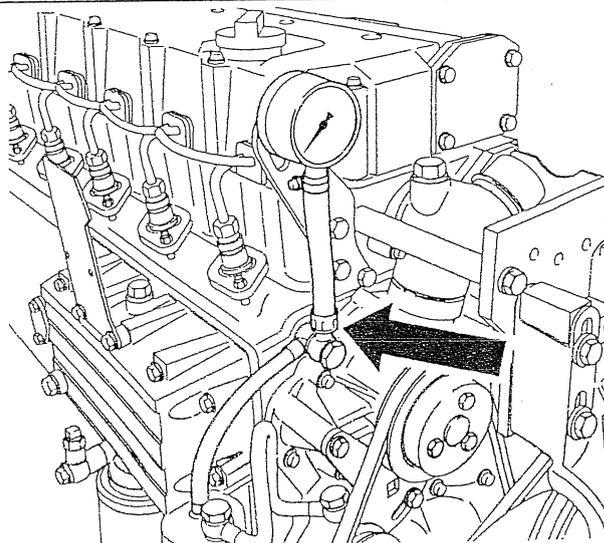
Tafel:

Name: Ro.

Datum: 05.97

Measurement of fuel admission pressure

The minimum value of fuel admission pressure depends upon the design of the injection system and thus also upon the design of the pressure resistance valve. The fuel admission pressure is checked at the inlet to the crank case. As there is no connection available for a pressure gauge this has to be provided for. (hollow screw with measuring connection)



BF4M 1012E Series

The pressure resistance valve (1.8 bar) has been built into the motors up to number **0144.276**. If it is necessary to replace parts then only the revised pressure resistance valve (1.8 bar) with Deutz number 02111520 may be used.

As from motor number **0144.277** (since July 1996) the pressure resistance valve has been changed to 5.0 bar.

	minimum rpm unloaded 1030 min ⁻¹	maximum rpm unloaded 2450 min ⁻¹
pressure resistance valve - old design (1.8 bar)	1.1bar	2.2 bar
pressure resistance valve - new design (1.8 bar)	1.1bar	2.2 bar
pressure resistance valve - design (5.0 bar)	2.0bar	4.2 bar

BF4M 1013E Series

If it is necessary to replace parts then only the revised pressure resistance valve (1.8) with Deutz number 02111520 may be used.

BF6 M 1013E / EC Series

Motors up to number **130.132** have a built in pressure resistance valve (1.8 bar). If it is necessary to replace parts then only the revised pressure resistance valve with Deutz number 02111520 may be used.

As from motor number **0130.133** the pressure resistance valve has been altered to 5.0 bar.

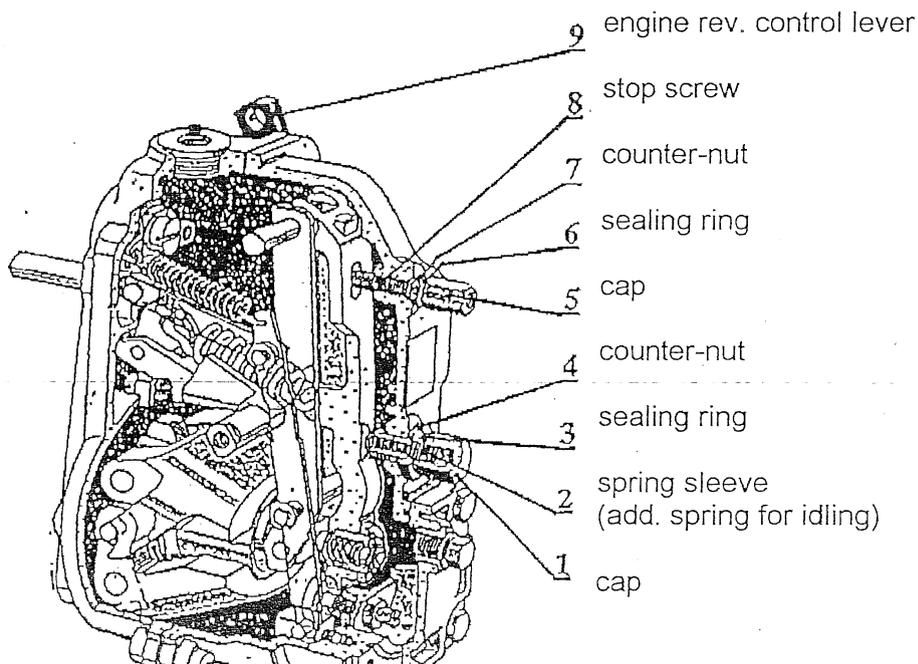
	minimum rpm unloaded 1030 min ⁻¹	maximum rpm unloaded 2450 min ⁻¹
pressure resistance valve - old design (1.8bar)	1.1bar	2.0 bar
pressure resistance valve - new design (1.8 bar)	1.1bar	2.0 bar
pressure resistance valve - design (5.0 bar)	2.0 bar	4.0 bar



Special adjusting instruction

Adjusting of minimum engine revolution on ATLAS-Excavators
RSV - regulator

- 1.) Bring engine into working temperature. Engine oil temperature min. 70° Celsius.
- 2.) Remove the bowden-cable from engine speed control lever, Pos. 9 and push back the cable for engine stop. Cable should sag slightly.
- 3.) Remove cap. Pos. 1 + 5
- 4.) Loosen counter-nut, Pos. 4
- 5.) Screw out spring sleeve, Pos. 2, at running engine until no reduction of engine revolution can be noticed, then screw out one turn more.
- 6.) Loosen counter-nut, Pos. 7
- 7.) Adjust with stop screw, Pos. 8, the engine revolution up to 950 - 970 rpm and secure with counter-nut, Pos. 7.
- 8.) Increase the engine-revolution as adjusted under item 7 for 5 - 20 rpm over spring sleeve, Pos. 2 and secure with counter-nut, Pos. 4. (removing of eventually existing „sawing“ of the engine)
- 9.) Screw on cap, Pos. 1 + 5, with sealing ring.
- 10.) Fix bowden-cable on engine speed control lever, Pos. 9. The adjustment of this cable should not increase the engine revolution as adjusted under item 8.
- 11.) Increase for a short time the engine revolution over the engine speed control in the cabin and turn back to minimum idling. The engine speed control lever, Pos. 9, must be on stop screw, Pos. 8 again.





A tappet clearance setting is possible both with a cold or warm engine. The cooling time should at least be 30 minutes and the engine oil temperature must not exceed 80°C.

Remove cylinder head cap and crankcase breather. Turn over engine until a valve overlapping of cylinder 1 is effected. Valve overlapping means: outlet valves is not yet closed, inlet valve begins to open. In doing so both tappet rods are not rotatable. Adjust tappet clearance setting on the respective cylinder with feeler gauge blade.

Tappet clearance: inlet - 0,3mm
 outlet - 0,5mm

Crankshaft position **1**
 Turn over engine until the valve overlapping on cylinder No. 1 is obtained

Crankshaft position **2**
 Turn engine by a full rotation (360°).

